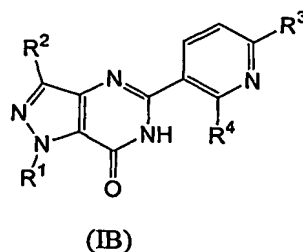
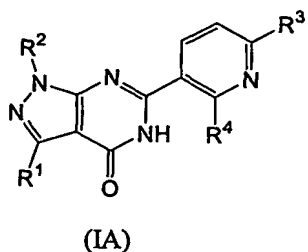


## CLAIMS

1. Pyridinylpyrazolopyrimidinone derivative represented by the following formula (IA) or (IB):



wherein:

R<sup>1</sup> is substituted or unsubstituted C<sub>3</sub>-C<sub>8</sub> cycloalkyl group or tert-butyl group;

R<sup>2</sup> is a hydrogen atom or C<sub>1</sub>-C<sub>3</sub> alkyl group;

R<sup>3</sup> is a group: -NR<sup>5</sup>R<sup>6</sup>, -C(=O)R<sup>7</sup> or -S(O)<sub>0-2</sub>R<sup>8</sup>;

R<sup>4</sup> is a hydrogen atom or C<sub>1</sub>-C<sub>3</sub> alkoxy group which is unsubstituted or substituted by one or more fluorine atom(s);

R<sup>5</sup> and R<sup>6</sup> are, same or different from each other, a hydrogen atom, substituted or unsubstituted C<sub>1</sub>-C<sub>6</sub> alkyl group, substituted or unsubstituted acyl group, substituted or unsubstituted heterocycloalkyl group, and substituted or unsubstituted heterocycloalkyl ring is formed with nitrogen atom which is binding R<sup>5</sup> and R<sup>6</sup>;

R<sup>7</sup> is a group: -OR<sup>9</sup> or -NR<sup>5</sup>R<sup>6</sup>;

R<sup>8</sup> is a hydrogen atom, a halogen atom, a group: -NR<sup>5</sup>R<sup>6</sup>, substituted or unsubstituted C<sub>1</sub>-C<sub>6</sub> alkyl group, or substituted or unsubstituted aryl group;

R<sup>9</sup> is a hydrogen atom or substituted or unsubstituted C<sub>1</sub>-C<sub>6</sub> alkyl group;

or pharmaceutically acceptable salts or solvates thereof.

2. The compound represented by the formula (IA) according to claim 1.

3. The compound represented by the formula (IB) according to claim 1.

4. The compound according to claim 1, 2 or 3, in which R<sup>1</sup> is

cyclohexyl group or cycloheptyl group.

5. The compound according to any one of claims 1 to 4, in which  $R^2$  is methyl group.

6. The compound according to any one of claims 1 to 5, in which  
5  $R^4$  is methoxy or ethoxy group.

7. The compound according to any one of claims 1 to 6, in which  $R^3$  is a group  $-NR^5R^6$ .

8. A pharmaceutical composition containing a compound according to any one of claims 1 to 7, or pharmaceutically acceptable salts or solvates  
10 thereof as active ingredient.

9. A PDE 7 inhibitor containing a compound according to any one of claims 1 to 7, or pharmaceutically acceptable salts or solvates thereof as active ingredient.